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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/166,496 | 10/05/1998 | HOLGER BELLMANN | 10191/821 | 9214 |

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EXAMINER

BROADHEAD, BRIAN J

ART UNIT PAPER NUMBER

3661

DATE MAILED: 11/15/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/166,496

Applicant(s)

BELLMANN ET AL.

Examiner

Brian J. Broadhead

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 October 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 October 1998 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

1. Claims 1, 3, 8, 9, 12, 14, 17, and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Rischar et al., 5636124.

2. As per claim 1 and 12, Rischar et al. discloses a plurality of activatable modules with corresponding priority values on lines 40-41, on column 7; a scheduler activating the modules as a function of the corresponding priority values on line 62, on column 6 through line 38, on column 7; the activates modules generating data by analyzing the states of the system on line 60, on column 4, through line 18, on column 5; and a priority manager modifying the corresponding priority value of at least one of the modules to one of increase and decrease the respective corresponding priority value relative to the priority value of another of the activatable modules on lines 7-11, on column 10 and lines 10-13, on column 11.

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3. As per claim 3 and 14, Rischar et al., discloses the priority manager modifies the corresponding priority of the module as a function of the states of the system on lines 10-13, on column 11.

4. As per claims 8, 9, 17, and 18, Rischar et al., discloses selecting a first module with the highest priority for activation wherein the scheduler assembles a residual set of modules from the set of activatable modules wherein the scheduler selects a third modules from residual set of the activatable modules for activation on lines 52-65, on column 11; and wherein the scheduler repeatedly selects a third module, each of the third modules having a respective highest priority wherein the scheduler assembles the residual set of the activatable modules which exclude the third modules already selected for activation and fourth modules that must not activated simultaneously with the third modules, wherein the scheduler selects repeatedly until the residual set does not contain any of the activatable modules on lines 1-21, on column 12.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 2, 4, 13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rischar et al., 5636124, in view of Yount, 4787041.

Rischar et al. discloses the limitations as set forth above. Rischar et al. does not disclose the priority manager modifying the corresponding priority value of a module as

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a function of a time period in which the module is one of activated and deactivated.

Yount teaches of a priority manager modifying the corresponding priority value of a module as a function of a time period in which the module is one of activated and deactivated on lines 41-44, on column 3. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the priority changing based on the time activated of Yount, in the invention of Rischar et al. because such modification would prevent an I/O device fault from being propagated onto the bus so as to cause a total bus failure as stated on lines 53-54, on column 3 of Yount.

7. Claims 5, 6, 10, 11, 19, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rischar et al., 5636124, in view of Kirstein, 4653003.

Rischar et al. discloses all the limitations as set forth above. Rischar et al. does not disclose the priority manager modifying the corresponding priority value of a particular module of the activatable modules as a function of an activation message which indicates that the particular module has been activated; modifies the corresponding priority value of the particular module as a further function of a corresponding deactivation message; the scheduler verifies that the first and third modules are activated and the unselected modules are not activated; and the system includes one of a motor vehicle. Kirstein teaches of a priority manager modifying the corresponding priority value of a particular module of the activatable modules as a function of an activation message which indicates that the particular module has been activated on lines 26-33, on column 9; modifies the corresponding priority value of the particular module as a further function of a corresponding deactivation message on

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lines 35-41, on column 9; the scheduler verifies that the first and third modules are activated and the unselected modules are not activated in figure 1, items 1-6; and the system includes one of a motor vehicle on line 9, on column 1. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the priority changing, the activation checking, and the vehicle of Kirstein in the invention of Rischar et al. because such modification would provide an invention that monitors critical variables and takes steps such that when a malfunction occurs, the equipment will not be damaged as stated on lines 23-25, on column 1, of Kirstein.

8. Claims 7 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rischar et al., 5636124, in view of Kephart, 5563452.

Rischar et al. discloses the limitations as set forth above. Rischar et al. does not disclose the priority manager modifying the corresponding priority value of a particular module of the activatable modules as a function of absolute time signals. Kephart teaches of a priority manager modifying the corresponding priority value of a particular module of the activatable modules as a function of absolute time signals on lines 29-39, on column 2. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the absolute times of Kephart in the invention of Rischar et al. because such modification would provide a device or system which automatically operates without human intervention, at selected time periods, to turn the data communication system on so that data communications can be implemented prior to the user's utilization of the system as stated on lines 8-13, on column 2, of Kephart.

Response to Arguments

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2. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection. Rischar et al. discloses a system that schedules both periodic and event driven tasks. The periodic tasks are performed by the system according to their priority until an event happens that causes a task associated with that event to be put on the ready list, which changes the tasks priority.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Broadhead whose telephone number is 703-308-9033. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William A. Cuchlinski can be reached on 703-308-3873. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for regular communications and 703-305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

BJB
November 8, 2002

Jaqueline A. B. B. B.
11/8/02
B. J. Broadhead